

32/89

PATENT ABSTRACTS OF JAPAN

(11)Publication number:

05-283762

(43)Date of publication of

29.10.1993

application:

(51)Int.Cl.

H01L 41/12

H02N 2/00

(21)Application

04-078005

(71)Applicant:

TOSHIBA CORP

number:

(22)Date of filing:

31.03.1992

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(54) MAGNETOSTRICTIVE ACTUATOR

(57)Abstract:

PURPOSE: To provide a magnetostrictive actuator enhanced in controllability of microdisplacement drive and quantity of displacement.

CONSTITUTION: A magnetic field generating air-core coil 8 and a heating air-core coil 9 are provided around a magnetostrictive rod 1, and the magnetostrictive rod 1 is heated by the heating air-core coil 9 to be thermally expanded, whereby the rod 1 is enhanced in controllability of microdisplacement drive and quantity of displacement.

